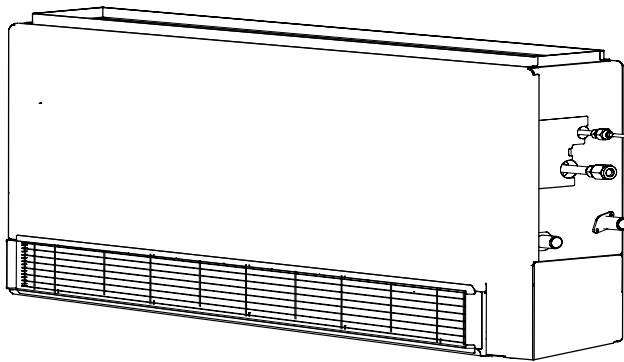




## Kahn Climate Control ATOM user handbook



Thank's for choosing Kahn. Please read this user handbook carefully prior to installing and keep it for further reference.

Incorrect use may cause fire, electric shock and the unit falling may result in injury or leakage. Contact our designated Kahn service centre on 0333 222 4016 specialists. The manufacturer shall not assume responsibility for accidents or injury caused by incorrect use.

This product must not be disposed together with the domestic waste. This product has to be disposed at an authorised place for recycling of electrical and electronic appliances.



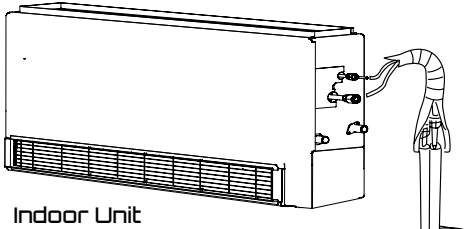
# Installation - ATOM

Please refer to our youtube channel which offers video advice and guidance for installation.

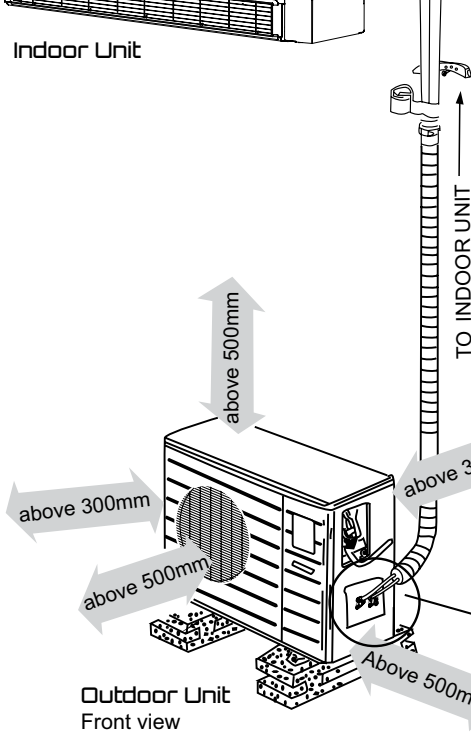
Find us on [YouTube](#) ... search for Kahn Climate Control or use the QR code



YouTube



Indoor Unit



Outdoor Unit  
Front view

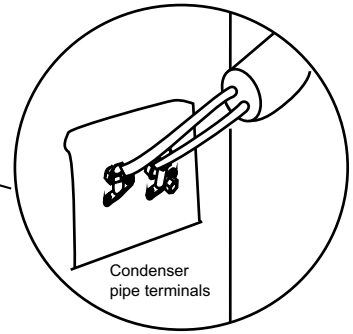
To mount / install the outdoor unit "indoors" the optional Plenum box MUST be used.

Cover connecting pipe with insulation lagging.



Sponge insulation lagging with a thickness of 8mm.

**Attention:**  
The maximum length of the connecting pipe (if rubber) is 9m.  
The maximum distance between indoor unit and outdoor unit is 30m if using copper piping



Condenser pipe terminals

See page 7

# Installation Instructions

## 1 Location of indoor unit

- Keep the air inlet and outlet free from any obstructions.
- Keep the height distance between the indoor and outdoor unit within 5m.
- If mounted on a wall or suspended from the ceiling ensure they are sturdy enough to bear the weight.
- Keep at least 1m away from any electrical appliances.

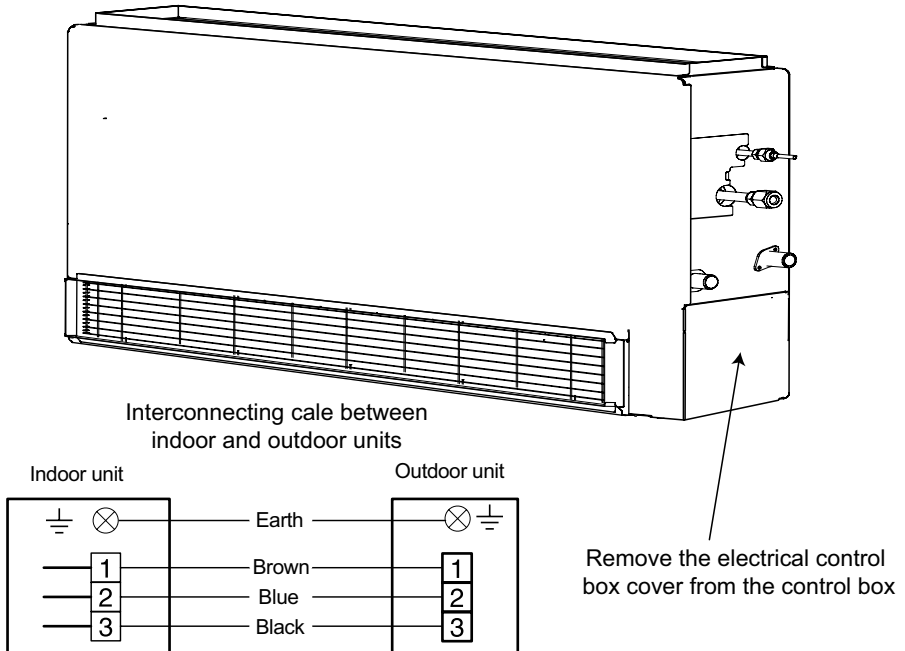
## 2 Location of outdoor unit

- A firm foundation solid enough to bear the weight of the unit and not cause any shaking.
- Good ventilation, away from dust, direct rain and direct sunlight.
- Do not restrict air flow to the outdoor unit.
- Avoid locating equipment close to flammable gas sources.
- If locating the outdoor unit indoors the plenum air extraction box must be used.

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## Installation of the Indoor Unit

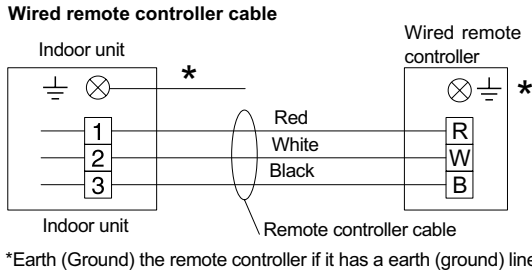
- The indoor unit should be floor standing or suspended by its hanging brackets.
- Mains power feed is to the outdoor unit - NOT the indoor unit.



Please refer to the wiring diagram located on the reverse of the cover plate of wiring terminals inside the evaporation unit.

On the outdoor unit, the wiring diagram is fixed to the inside of cover plate (which protects the wiring terminal block to the right side of the condenser)

## Electrical wiring connections - Hard wire controller



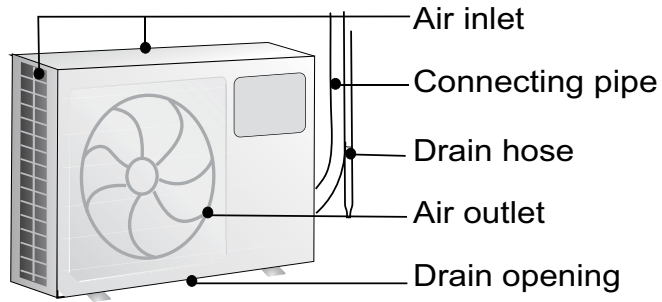
### Note:

- If any of the wires are to be replaced or extended be sure to use identical diameter.

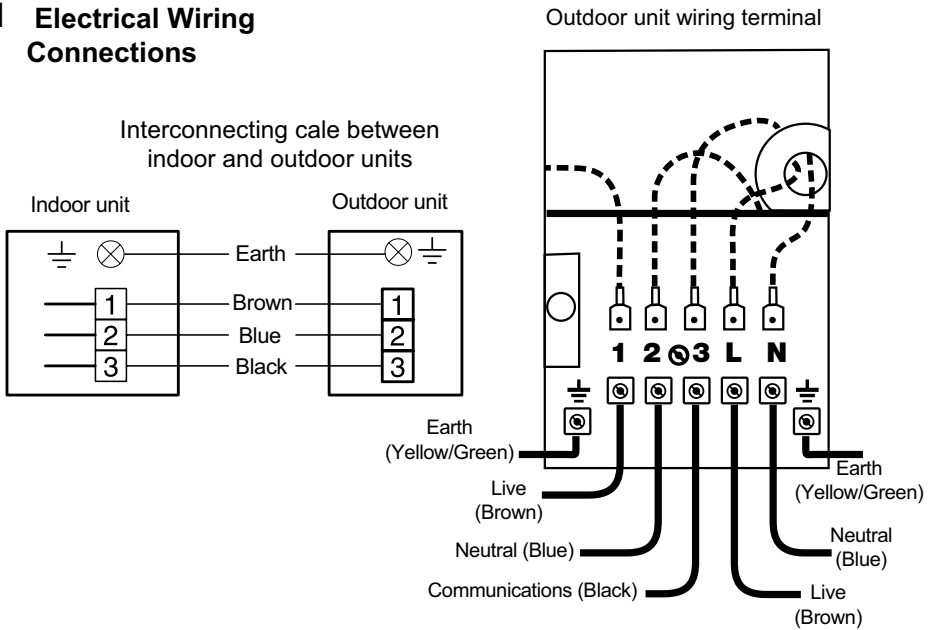
### WARNING:

- Please use the electric circuit diagram attached to the indoor/outdoor units as main reference whilst installing.
- The power wire and signal wire between the indoor/outdoor units must be connected one by one as per corresponding number on the wiring terminal board.
- The electric box cover must be mounted and secured in position, otherwise fire or electrical shock may occur because of dust or moisture.

# Installation of the Outdoor Unit



## 1 Electrical Wiring Connections

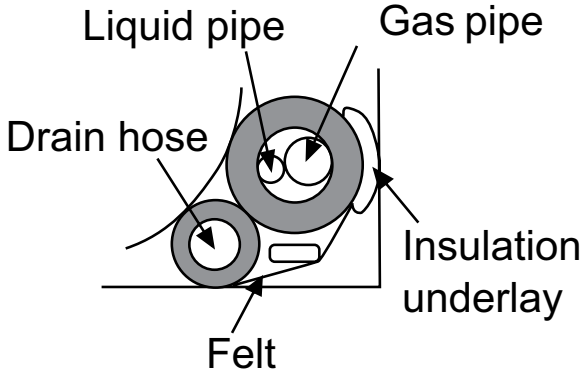


- 1 Remove the wiring terminal cover plate (on the side of the outdoor unit), connect mains lead (not supplied) to right hand side of terminal block by unscrewing the mounting screws.
- 2 Loosen the fixing screws on each of the wiring terminals and feed the power communications, and earth cables through their respective fixing clips before tightening the screws. Earth wire must be connected firmly.
- 3 Replace the wiring terminal covering plate and secure firmly with mounting screws.
- 4 Once completed perform a final check to ensure integrity of cabling between the indoor and the outdoor unit

### 3 Installation of the drain hose

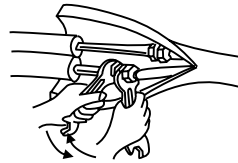
#### ■ NOTE:

- The drain hose must be arranged beneath the refrigerant pipe.
- The drain hose must not be hunched or twisted.
- The refrigerant pipe and the drain hose must be wrapped up by felt strip. Insulation lagging should be used at where the pipe contacts the wall.



### 4 Pipe connection - indoor unit

- Connect both pipes using two adjustable spanners, levering one against the other (see fig 1)



(Fig. 1)

- Take cable and rubber pipes to outdoor unit.

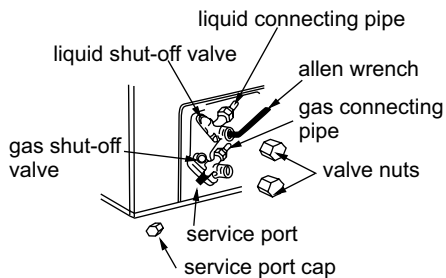
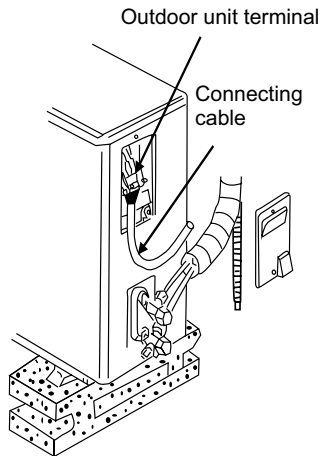
### 5 Arrangement of the drain hose

- To drain the condensate water easily, the drain hose should follow a downwards gradient.

## Connecting Pipe

### Instructions for bleeding pre-sealed a/c unit

- Align the centre of joint in line with that of flare nut and tighten the nut of connecting pipe with wrench. (Adjust the torque by the same method of connecting pipe for indoor unit.)
- **Make the pipe connection between the indoor and outdoor unit ensuring a tight connection** (finger tightening initially to avoid risk of cross threading).
- **Remove both brass end caps from the two valves on the outdoor unit – this will reveal an allen key connection on both valves.**
- **Turning anticlockwise – first half unscrew the small liquid port valve, you will hear refrigerant gas passing through the small pipe – this will occur for up to 6 seconds.**
- **Repeat the above process for the larger gas valve port.**
- **Return to fully unscrew small liquid port valve.**
- **Return to fully unscrew large gas port valve.**
- **Replace the brass caps firmly.**
- **You should not hear any further refrigerant movement once these steps have been completed** (Apply soapy water to the piping joints to ensure no gas bubbles exist i.e. No leaks should exist).



**If any leak exists, close off allen key valves and re-tighten the leaking joint**

#### Notice:

Do not vent refrigerant into the atmosphere: refrigerant is a fluorinated greenhouse gas, covered by Kyoto protocol, with a Global Warming Potential (GWP) = 1900(R410A)/1600(R407C)/1700(R22)

#### **PUMP DOWN PROCEDURE / REFRIGERANT RECOVERY PROCEDURE:**

Please refer to our youtube channel which offers video advice and guidance for maintenance.

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**You Tube**

